

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: EGGER

In re Application of:)
HORST EGGER & OLAF SCHWANDT)
Appl. No.: PCT/AT2004/000442)
Int. Filing Date: December 15, 2004)
For: SORPTION ELEMENT)

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the following references A) to D) which were cited in the International Search Report issued by the European Patent Office with regard to the corresponding international patent application No. PCT/AT2004/000442 and references E) to G). Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

	Country:	Patent or Appl. No:	Patentee or Applicant:	Issue or Filing Date:
A)	USA	US 4 687 573	Miller et al.	08-18-1987
B)	Japan	JP 61 222523 A	P S Kankyo	10-03-1986
C)	Japan	JP 57 167718 A	Nobuko T.	10-15-1982
D)	USA	US 4 711 097	Besik	12-08-1987
E)	USA	US 5 817 167	DesChamps	10-06-1998
F)	Europe	EP 0 678 321 A2	Essex	10-25-1995
G)	Germany	DE 100 27 467 A1	Institut f. Luft	12-06-2001

Copies of references B), C), F) and G) are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- ☒ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:
The undersigned hereby states:
 - ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
 - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart

foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

- ☐ The fee of \$180.00 set forth in 1.17(p).
- ☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.
- ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

Reference G) describes a method using dehumidifying and cooling potential of used air from the room to process external air, whereby the enthalpy of the induced external air is reduced in a rotating, regenerative, rapidly running absorption exchanger connected to a compound circuit system with heat exchangers, a circulation pump and a compensation container combined with an evaporator of a refrigeration system. The method involves using the dehumidifying and cooling potential of used air from the room to process external air, whereby the enthalpy of the induced external air is reduced in a rotating, regenerative, rapidly running absorption exchanger (2) and dehumidified and cooled, further dehumidification and cooling in a subsequent heat exchanger (3), a further reduction in enthalpy of the feed air flow in the subsequent evaporator (4), using a further heat exchanger (5) to reheat to the desired feed air state, feeding the output air into the absorption exchanger without thermal pretreatment, humidifying and heating the output air in the absorption exchanger, taking heat into the output

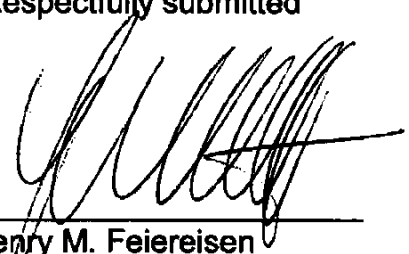
air in the condenser (12) and feeding it to the atmosphere as exhaust air. Independent claims are also included for the following: an air conditioning arrangement for humid-and-hot and hot climatic regions.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

By:



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Form PTO-1449U.S. Department of Commerce
Patent and Trademark Office**INFORMATION DISCLOSURE CITATION**

Attorney's Docket No. EGGER	Applicant HORST EGGER et al.	Int. Appl. No. PCT/AT2004/000442
Int. Filing Date December 15, 2004	Group	Examiner

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate
	4,687,573	08-18-1987	Miller et al.			
	4,711,097	12-08-1987	Besik			
	5,817,167	10-06-1998	DesChamps			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation
	JP 61 222523 A	10-03-1986	Japan			abstract
	JP 57 167718 A	10-15-1982	Japan			abstract
	EP 0 678 321 A2	10-25-1995	Europe			yes
	DE 100 27 467 A1	12-06-2001	Germany			no

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:**Date considered:**

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/AT2004/000442

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D53/26 B01D53/06 F24F3/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D F24F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 687 573 A (MILLER ET AL) 18 August 1987 (1987-08-18) column 3, line 64 - column 10, line 52; figures 1,2	1,2,6, 10,12-14
X	PATENT ABSTRACTS OF JAPAN vol. 011, no. 063 (C-406), 26 February 1987 (1987-02-26) & JP 61 222523 A (P S KANKYO GIKEN KK), 3 October 1986 (1986-10-03) abstract	1,2,6, 12,13
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 011 (C-145), 18 January 1983 (1983-01-18) & JP 57 167718 A (NOBUKO TAMAOKI; others: 01), 15 October 1982 (1982-10-15) abstract	1,2,4
	----- -/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

9 March 2005

Date of mailing of the international search report

17/03/2005

Name and mailing address of the ISA

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Authorized officer

Lienhard, D

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/AT2004/000442

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 711 097 A (BESIK ET AL) 8 December 1987 (1987-12-08) column 3, line 48 - column 5, line 63; figure 1 -----	1,2,10, 12,13

INTERNATIONAL SEARCH REPORT

International Application No
PCT/AT2004/000442

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4687573	A	18-08-1987	DE 3568706 D1 EP 0172003 A1 GB 2163065 A ,B JP 1948041 C JP 6065369 B JP 61054209 A	20-04-1989 19-02-1986 19-02-1986 10-07-1995 24-08-1994 18-03-1986
JP 61222523	A	03-10-1986	NONE	
JP 57167718	A	15-10-1982	NONE	
US 4711097	A	08-12-1987	NONE	